IN THE CLAIMS:

Claims 1-22 and 25-31 (canceled).

32. (previously amended)   A substrate carrier for an ink jet printer comprising a molded or cast metal body containing a substantially planar substrate surface and four sides essentially perpendicular to the substrate surface, the substrate surface including one or more substrate locator wells each having a well base for attaching thereto one or more semiconductor substrates, at least one ink feed slot in the base of the well for flow of ink from an ink reservoir attached to the body of the carrier through a cylindrical ink feed chamber in the body to the ink feed slot, the ink feed chamber being disposed on an opposing side of the substrate carrier from the substrate locator well, wherein at least one of the four sides has a substantially planar surface devoid of fins extending from the substrate surface essentially perpendicular thereto for containing contact pads for electrical contact form a printer to the substrates on the body, and at least two of the four sides contain cooling fins.

33. (original) The carrier of Claim 32 wherein the metal comprises aluminum or zinc.

34. (original) The carrier of Claim 33 further comprising a coating or layer of silicon dioxide thereon.

35. (original) The carrier of Claim 34 wherein the coating or layer of silicon dioxide has a thickness ranging from about 0.1 to about 2.5 microns.

36. (previously amended) The carrier of Claim 33 further comprising a coating or layer of poly(xylylene) thereon.

37.(previously amended) The carrier of Claim 36 wherein the coating or layer of poly(xylylene) has a thickness ranging from about 0.1 to about 10 microns.

38. (original) The carrier of Claim 32 further comprising an ink reservoir body removably attached to the carrier for flow of ink through the ink chamber to a semiconductor substrate attached to the well base.

39. (original) The carrier of Claim 32 wherein the at least one side further comprises one or more notches for removably attaching an ink reservoir to the carrier.